## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

- 1-7. (canceled)
- 8. (currently amended) Apparatus for transferring chips from a wafer to a lead frame, comprising:
- a wafer-positioning device for positioning a wafer-with, the wafer comprising chips surfaces thereof extending in a first plane, the first plane having a front face and a back face, the chips surfaces exposed on the front face of the first plane;
- a lead frame positioning device for positioning a lead frame with, the lead frame comprising a bond surface thereof, the bond surface extending in a second plane which is different from the first plane, the second plane having a front face and a back face, the bond surface exposed on the front face of the second plane, the front face of the second plane facing the front face of the first plane, either parallel (180°) or intersecting at an intersection line to form a dihedral angle of greater than 0° and less than 180°;

a rotatable transfer assembly comprising at least two transfer heads, a first transfer head for picking up a first chip from the wafer by a first transfer head in a chip pick-up position, while and a second transfer head for bonding a second chip to the lead frame by another one of the transfer heads in a chip bonding position; wherein the rotatable transfer assembly is configured to concurrently rotate rotating the first chip by the first transfer head from toward the chip pick-up position to of the first transfer head and the second transfer head toward the chip bonding position of the second transfer head; and bonding the first chip to the lead frame by the first transfer head in the chip bonding position, while picking up a third chip from the wafer by another one of the transfer heads in the chip pick-up position; and

a transfer assembly motor for driving the rotatable transfer assembly about an axis of rotation, the axis of rotation extending along a line in a third plane, all points of the third plane being both equidistant to and between the front faces of the first and second planes.

- 9. (currently amended) Apparatus according to claim 8, characterized in that the transfer heads are rotatable essentially along one a complete circle in a fourth plane, wherein the fourth plane is at right angles to the axis of rotation of the transfer assembly.
- 10. (previously presented) Apparatus according to claim 9, characterized in that the transfer heads are spaced regularly along said circle.
- 11. (previously presented)Apparatus according to claim 31, characterized in that the dihedral angle is 90°.
- 12. (previously presented) Apparatus according to claim 31, characterized in that the offset angle is 0°.
- 13. (previously presented) Apparatus according to claim 8, characterized in that the number of transfer heads is four.
- 14. (currently amended) Apparatus according to claim 8, characterized in that the transfer assembly is rotated in only one direction.
- 15. (previously presented) Apparatus according to claim 8, characterized in that each transfer head comprises a collet which, in the chip pick-up position, is movable in a direction essentially at right angles to the first plane, and in the chip bonding position, is movable in a direction essentially at right angles to the second plane.
- 16. (previously presented) Apparatus according to claim 15, characterized in that the transfer assembly comprises a counterweight for each collet, each collet being coupled to

its corresponding counterweight through a mechanical coupling for compensating radial forces exerted on the collet relative to said axis of rotation.

17. (previously presented) Apparatus according to claim 16, characterized in that the

mechanical coupling is adapted to be driven by a collet drive motor for moving the collet

radially relative to said axis of rotation.

18. (previously presented) Apparatus according to claim 17, characterized in that the

transfer assembly motor has the same axis of rotation as the collet drive motor.

19. (previously presented) Apparatus according to claim 16, characterized in that the

counterweight for one collet is another collet of the transfer assembly.

20. (previously presented) Apparatus according to claim 19, characterized in that said

one collet is situated oppositely relative to said other collet with respect to said axis of

rotation.

21. (previously presented) Apparatus according to claim 16, characterized in that the

mechanical coupling is a wire.

22. (previously presented) Apparatus according to claim 21, characterized in that a

support of each collet relative to the transfer assembly comprises a pressure spring

pretensioning the wire.

23. (previously presented) Apparatus according to claim 22, characterized in that the

pressure spring has a low stiffness.

24. (previously presented) Apparatus according to claim 22, characterized in that the

pretension force is greater than a bonding force to be applied on a chip on a lead frame by

the collet of a transfer head.

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25. (previously presented) Apparatus according to claim 8, characterized in that the rotatable transfer assembly is rotatable around a transfer assembly stator, a narrow circumferential gap being provided between the rotatable transfer assembly and the transfer assembly stator, the transfer assembly stator comprising groove sections facing the gap for at least the chip pick-up position and the chip bonding position, respectively, each groove section extending in the circumferential direction and being in communication with a first gas duct, each transfer head of the rotatable transfer assembly comprising at least one collet having a pick-up opening, the pick-up opening being in communication with the gap through a second gas duct.

26. (previously presented) Apparatus according to claim 25, characterized in that the number of groove sections is equal to the number of transfer heads.

27. (previously presented) Apparatus according to claim 25, characterized in that each first duct is provided with a controllable valve.

28. (previously presented) Apparatus according to claim 25, characterized in that the second gas duct at its end facing the gap is provided with a bridging groove extending in the circumferential direction, the bridging groove being adapted to bridge two adjacent groove sections of the transfer assembly stator.

29-30. (canceled)

31. (previously presented) Apparatus according to claim 8, wherein the two front faces intersect at the intersection line, the third plane bisects the dihedral angle, and the axis of rotation is at an offset angle of at least 0° and at most 90° with respect to the intersection line.